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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/056,258	01/24/2002	Yasuhiro Nakagawa	36858.839	7824
75	90 04/29/2003			
Keating & Bennett, LLP			EXAMINER	
10400 Eaton Pla Suite 312			TUGBANG, ANTHONY D	
Fairfax, VA 22	2030		ART UNIT	PAPER NUMBER
			3729	61
			DATE MAILED: 04/29/2003	1

Please find below and/or attached an Office communication concerning this application or proceeding.



	Application No.	Applicant(s)			
	10/056,258	NAKAGAWA ET AL.			
Office Action Summary	Examiner	Art Unit			
	Dexter Tugbang	3729			
The MAILING DATE of this communication appears on the cover sheet with the correspondenc address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status					
1) Responsive to communication(s) filed on 23 J	anuary 2003 .				
2a) This action is FINAL . 2b) ☑ Thi	is action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims					
4)⊠ Claim(s) <u>1-17</u> is/are pending in the application					
4a) Of the above claim(s) <u>13-17</u> is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
<u> </u>					
6) Claim(s) 1-12 is/are rejected.					
7) Claim(s) is/are objected to.	alastian varvinamant				
8) Claim(s) are subject to restriction and/or election requirement. Application Papers					
9)⊠ The specification is objected to by the Examiner					
10) ☐ The drawing(s) filed on 24 January 2002 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
Applicant may not request that any objection to the		·			
11) The proposed drawing correction filed on	***	` '			
If approved, corrected drawings are required in reply to this Office action.					
12) The oath or declaration is objected to by the Examiner.					
Priority under 35 U.S.C. §§ 119 and 120					
13)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a)⊠ All b)□ Some * c)□ None of:					
	s have been received				
 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage 					
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).					
a) ☐ The translation of the foreign language provisional application has been received. 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.					
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Info	nmary (PTO-413) Paper No(s) rmal Patent Application (PTO-152)			

DETAILED ACTION

Election/Restrictions

1. Applicant's election without traverse of the invention of Group I, Claims 1-12, in Paper No. 5 is acknowledged.

2. Claims 13-17 have been withdrawn from further consideration pursuant to 37 CFR

1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking

claim. Election was made without traverse in Paper No. 6.

Drawings

3. Figures 12 and 13A-13C should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Specification

4. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

The following title is suggested: A Method of Manufacturing a Nonreciprocal Circuit Device.

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Claim Objections

5. Claim 3 is objected to because of the following informalities: the term "its" (line 3) should be replaced with --a--. Appropriate correction is required.

Claim Rejections - 35 USC § 112

6. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

7. Claims 2-7 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In Claim 2, the phrase of "the entire nonreciprocal circuit device" (line 3) lacks positive antecedent basis.

Claim Rejections - 35 USC § 102

8. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States; or
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002

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do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

9. Claims 1, 9, 10 and 12 are rejected under 35 U.S.C. 102(b) as being anticipated by the publication to Illyefalvi-Titez et al, entitled "Application of Laser Engraving for the Fabrication of Fine Resolution Printed Wiring Laminates for MCM-Ls".

Illyefalvi-Titez discloses a method of manufacturing a nonreciprocal circuit device comprising: marking information of engraving patterns (see p. 504) onto a metal case (electroplated layer in Fig. 1) by irradiating with a laser beam.

With respect to the recitations of central conductors, a ferrite core, and a permanent magnet, these limitations recited in the preamble of Claim 1 (lines 1-4) are intended use limitations and have not been given patentable weight since the body of the claims do not depend upon the preamble for completeness and the process steps are able to stand alone. *In re Hirao*, 535 F.2d 67 190 USPQ 15 (CCPA 1976).

Regarding Claims 9, 10 and 12, Illyefalvi-Titez further teaches that the laser beam is continuous, pulsed, and a YAG laser (see p. 505).

10. Claims 1 and 2 are rejected under 35 U.S.C. 102(b) as being anticipated by Forterre et al 5,495,210.

Forterre discloses a method of manufacturing a nonreciprocal circuit device comprising: marking information of holes 24 onto a metal case (dielectric layer 6) by irradiating with a laser beam (see col. 4, lines 10-13).

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Regarding Claim 2, Forterre further teaches heating the circuit after laser marking by firing the device to laminate it (see col. 6, lines 60-63).

11. Claims 1, 8, 9 and 12 are rejected under 35 U.S.C. 102(e) as being anticipated by Tsujimoto et al 6,449,123.

Tsujimoto discloses a method of manufacturing a nonreciprocal circuit device comprising: marking information (characters "SSM9902", etc., shown in Fig. 1B) onto a metal case by irradiating with a YAG laser beam (see col. 6, lines 20+).

Regarding Claim 8, the metal case that this marked with the laser is read as the claimed "upper yoke" and the claimed "lower yoke" is read as the various magnetic films (see col. 7, lines 3+) that are bonded with the upper yoke. Laser marking occurs before the various magnetic films are bonded with the upper yoke.

Claim Rejections - 35 USC § 103

- 12. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 13. Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Illyefalvi-Titez et al.

Illyefalvi-Titez discloses the claimed manufacturing method as previously discussed.

However, Illyefalvi-Titez does not appear to mention that the laser beam has a wavelength of 10 µm or less.

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The range of laser beam wavelength is considered to be an effective variable within the level of ordinary skill in the art of laser marking and it would have been obvious to one of ordinary skill in the art at the time the invention was made to have provided a range of wavelength of 10 µm or less, since it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art. *In re Boesch*, 617 F.2d 272, 205 USPQ 215 (CCPA 1980).

Allowable Subject Matter

14. Claims 3-7 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Conclusion

- 15. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 16. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dexter Tugbang whose telephone number is 703-308-7599. The examiner can normally be reached on Monday Friday 9:00 am 6:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Vo can be reached on 703-308-1789. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-3590 for regular communications and 703-305-3588 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0858.

Dexter Tugbang

Primary Examiner

Art Unit 3729

adt

April 6, 2003